



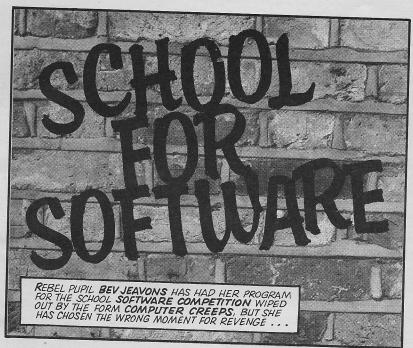




LOAD RUNNER



LUMU KUNINEK ERROR MESSAGE.
GAME BROKEN. STAND BY FOR NEW INSTRUCTIONS. ... I THINK IT'S TIME WE WENT. The state of the ET'S GET OUT OF HERE! WELL, I GUESS THAT TAKES CARE OF THAT. SCRIPT STEVE CRADDOCK ARTWORK HIGH ABOVE THEM, THEY ARE BEING WATCHED. PETER DENNIS LETTERS MICK HOLLINGWORTH NEXT PRINTOUT: THE HUNTERS AND THE HUNTED

















SCHOOL FOR SOFTURRE







SCHOOL FOR SOFTWARE









TAPI ITRTICI

THE WORDSQUARE below contains the names of four computers; their names begin with D, N, S and P. Look for the initial letter and try to trace the names, going up or down, forwards, backwards or diagonally as neces-

B F P M D L	A I I E O D E	N R D L O R S	I R C T T E P	A S A G O K E	L R K R C N	A T B I E H	L M B W I N
C	E	S P	P D	E L	C T	E R	M U
-		and the later of					

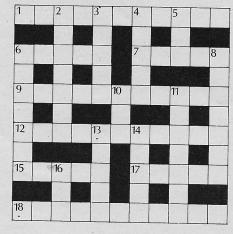
Below are five buzzword phrases which have been mixed-up. Can you match the words in column A to the correct words in column B?

A	В
LOAD	RESOLUTION
BRAIN	CODE
DISC	STORM
MACHINE	RUNNER
HIGH	DRIVE

ANSWERS to the puzzles in last printout:

The Datasnake secret word is ANALOGUE. The range of numbers, 1 to 100, must be halved repeatedly. If the original number is 65 the computer would first guess 50. It would them divide the range 50-100 by two which leaves 75. As the original is now lower the computer finds the middle of the range 50-75. If the result of the division by two is not an integer the computer rounds it down, i.e. 50.75 becomes 50.

Wordplotter 9

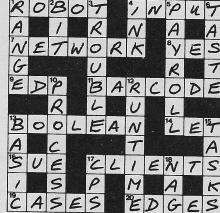


Across

- 1. The 14 of a little computer? Sinclair's new offspring! (11)
- Little shirts for fairly large computers (5)
- Happen to be 200 in what belongs to us (5) Like to start? (4,2,5)
- Shining bright like old manuscript or new pixel
- RETURN to some (5)
- One way most may become all (5)
- What the processor does to a memory location

- 2. Use of a computer in charge of other equipment
- Beginning of two TRS-80 keywords (5)
- Equilateral parallelogram (5)
- The twentieth micro? (3)
- Man-made object talked to in code by experts
- Dry runs upset when the engine finishes its lubricant (7)
- Japanese sash found in a micro belt (3)
- Collects together data (7)
- Join gently together, two programs for instance
- Requires requirements (5)
- 16. Young Edward is an old tearaway (3)

WORD PLOTTER 8 SOLUTION



Loading Instructions for the computer programs on your free single.

The computer programs on this disc are for the following personal computers:—

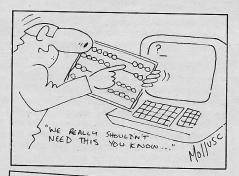
Track 1 BBC Model B Track 2 Spectrum 48K Track 3 Dragon 32K

Each program can be loaded directly into the appropriate computer by connecting the headphone output of your amplifier to the cassette input on the computer. This might mean that you have to make or buy an adaptor lead to fit both sockets.

Another method is to record the program onto a cassette and load this in the usual way. It is a good idea with both methods to feed a mono signal only into the computer, and this may be achieved by turning the balance control on your amplifier to one side. As always with loading programs the correct volume level must be used.

As the record grooves will eventually wear out, possibly causing loading problems, why not SAVE the program on cassette for future use?

Now sit back, listen and watch!



Programming?

I THINK Load Runner is fantastic; the stories are excellent. Will you do any features on programming? I would like to learn how to write my own programs. Can you do anything

Russell Brown, Polmont, Falkirk

At the moment I have no plans for my operators to run any fact-routines on programming but your request has been filed in the databanks for future consideration. What do other readers think?

I will pay £3 for each letter or joke printed.

Write to: The Controller, Load Runner, 196-200 Balls Pond Road, London N1 4AQ

DECODERS 20 Mainframe LPs awarded to Load Runner Decoders

IN THIS PRINTOUT there are prizes galore to be claimed by Decoders. Mainframe, the computer rock band which recorded the special Load Runner free single, have donated 10 copies of the recently-released album Tenants of the Lattice Work to be awarded to the lucky Decoders whose membership numbers are listed in the coded printout below. As a bonus, each LP will be accompanied by an unreleased album entitled End of an Era, composed by Murray Munro — a white label collectors' item! To discover whether you are one of the members listed, decode the message using your cipher book. The message also contains an easy question. If your number is included, claim your prize by writing your name, address and membership number on a postcard, together with the answer to the question, and post it to me at my installation base to arrive not later than October 28. The prizewinners will have their photographs displayed on this page in future printouts. If your number is not listed, you can still obtain Tenants of the Lattice Work at the reduced rate quoted at the bottom of this page.



O QRU FSMDY WAHHULN CLU:

IHU ZULI QWI TAVU;
IHU QWI NUVUH TAVU;
IHU IHU ZULI UAERQ;
IHU QWI IHU TISL;

(Keyword No. 1)

IHU ZULI QRLUU ZULI; IHU QWI ZULI NAX; IHU IHU NAX QWI; IHU ZULI HAHU UAERQ; IHU IHU UAERQ QRLUU; IHU QWI TAVU NUVUH;

WRAMR QUCG PIUN CHPY LIYP JFCY TIL?



Join the Club

THE LOAD RUNNER DECODERS is a rapidly growing fan club for readers of the first computer comic in the galaxy. A new member will receive a personalised security pass with his or her photograph mounted upon it, together with a membership number. This Security Pass will give the bearer a reduced admission charge to exhibitions and computer fairs announced from time to time in the Decoders page of Load Runner.

Each member will also receive the Decoders Cipher Book which provides the key to the coded messages that appear in each printout. Exciting prizes are awarded to successful Decoders whose membership numbers appear in those messages.

The cost of membership is £3. If, however, you cut out the word Decoders from the top of this page and from one other printout of Load Runner, you can join the club at the special reduced rate of £1. Simply fill in the application form below and send it together with your membership fee and TWO passport-size photographs to: The Controller, Load Runner Decoders, ECC Publications, 196-200 Balls Pond Road, London N1 4AQ. Please make cheques or postal orders payable to ECC Publications Ltd.

Star Letter

ARE YOU a Decoder with a difference? Do you have an interesting hobby or an unusual use for your computer? Has something out-of-the-ordinary ever happened to you? Write and tell me about it, including a photograph if possible. £5 will be paid for each Star Letter published.

Special discount on Mainframe album

TENANTS OF THE LATTICE WORK is a computer rock album which tells in words and music the adventures of Oscar, an ordinary office worker suddenly plunged into the extraordinary computerised future. His story also forms part of The Quest — a complicated puzzle that nevertheless can be solved by anyone with a good school standard of general knowledge. There are big prizes to be won.

Decoders can purchase the LP at the exclusive *Load Runner* discount of £4.25, which includes postage and packing. The normal retail price is £4.99. Send a cheque or a postal order, together with your name, address and membership number, to: Mainframe Decoders Offer, Load Runner, ECC Publications, 196–200 Balls Pond Road, London N1 4AQ. This offer is open to Decoders only.



HOW TO ENTER

BELOW are listed eight different words. Each of these words must be placed horizontally inside the grid on the entry form. When the words have been placed correctly they will spell out two eight-letter words vertically in the shaded columns. Both of these words are associated with computing.

When you have completed your solution, complete the details on the entry form and post it to: Spectrum Competition, Load Runner, ECC Publications, 196-200 Balls Pond Road, London N1 4AQ, to arrive not later than October 28. The winners will be decided on the basis of the first three correct solutions opened. The controller's decision is final and employees of Sinclair Research and ECC Publications are ineligible.

The eight words are:

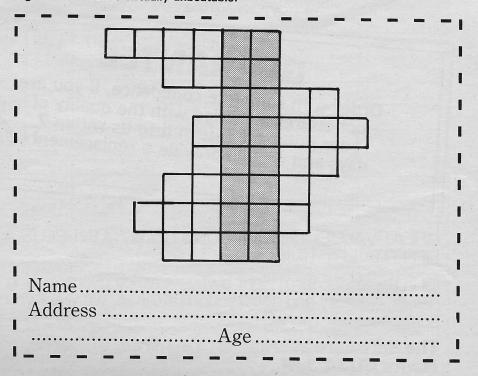
BARIUM ALTER CHIP START REMISS NEXT FIRM ACCESS

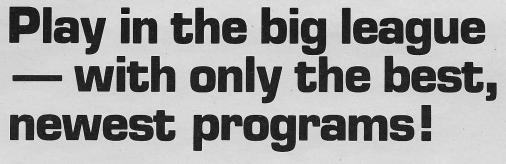
THE 48K SINCLAIR SPECTRUM is one of the most popular computers in the world. It has the following specifications:

★ Full colour, high-resolution graphics ★ Full-size keyboard ★ Upper and lower case characters ★ High speed LOAD and SAVE ★ Built-in Sinclair Basic Sound capability * 48K RAM.

The Spectrum has an enormous range of available software and is easily expandable, compatible with the ZX Printer and the new ZX Microdrives, which provide high-speed access to massive storage.

There are three 48K Spectrums to be awarded to prizewinners, and each comes with Computer Scrabble, the on-screen version of the famous board game, containing a huge vocabulary of over 11,000 words and four skill levels, the highest of which is virtually unbeatable.





We've searched for brilliant new program sources throughout the U.K. and North America to find an exciting collection of new games — and business programs — many of which cannot be bought by mail order from any other source!

Every month, we'll be adding to our catalogue to bring you the best of new games, new business, educational and household software. And the good news is — we're specialising in programs for your Sinclair!

With our special new deal — you just CAN'T GO WRONG.

- * A free offer every month (this time it's a free blank C20 cassette with every two games ordered)
- * A money-back guarantee if you're not entirely satisfied with your purchase that's how confident we are about the quality and value!

All you have to do is look at our first HOT selection, then order quickly to be among the first to own these games of skill, intelligence and excitement (fast delivery is another of our specialities — so you could be using these new programs SOON).

FREE BLANK C20 COMPUTER CASSETTE WITH EVERY TWO CASSETTES YOU ORDER!

Remember there's no limit to the number of free cassettes you receive if your order justifies them — so why not get together with friends or user group members and share the freebies?

GUARANTEE

Order with complete confidence. If you are not entirely satisfied with the quality of your purchase return it to us within 7 days and we will provide a replacement.

GREAT VALUE! TREMENDOUS SELECTION! PLUS A FREE OFFER EVERY TIME!

Fill in the order form right away — we're guaranteeing fast delivery, quality and satisfaction (after all, we want you to come back for more!)

The Software Workshop, Yew Tree, Selborne, Hants GU34 3JP





Here's a whole NEW selection of the latest games, the best-value software for your ZX-81 or Spectrum.

ZX81 Software 1-01 Stock Market Buy and sell your way to millions!		2-14 Meteor Storm Spectrum version of the ever-popular arcade game. 16K or 48K RAM	£4.95
1-02 Football League First division fun for the soccer	£3.95	2-15 Star Trek Popular space program brought to life by excellent graphics. 48K RAM	£4.95
enthusiast. 16K RAM 1-03 Test Match Match your wits alongside the	£3.95	2-21 Frogger Manoeuvre the frog across the road avoiding heavy traffic. 48K RAM	£5.95
1-12 Avenger Avoid missiles and bombs to become the	£3.95	2-22 Crazy Balloons Guide the balloons round the maze without bursting. 48K RAM	£5.95
ruler. 16K RAM 1-13 Protector Defend your own ship from oncoming	£4.95	2-23 Arcadia The expert's version of the popular 'Invaders' game. 16K or 48K RAM	£5.95
1-31 Comp-U-Share Investment management program for	£4.95	2-24 Golf The finest of golf handicap games. 48K RAM	£5.95
unit trusts, shares and loan stocks. Complete documentation included. 16K RAM	£9.95	2-25 Test Match More exciting than the real thing! 48K RAM	£5.95
1-32 Comp-U-Tax Accurate personal income tax calculator for 82/83 tax year. Full documentation included. 16K RAM	£9.95	2-26 Derby Day This favourite has to be a winner. 48K RAM	£5.95
		2-27 Rescue Rescue the Princess from marauding patrols. 48K RAM	£5.95
Spectrum Software 2-12 Avenger		2-29 Jackpot The harmless way to take on the onearmed bandit. 48K RAM	£5.95
(See 1-12 under ZX81). 48K RAM 2-13 Sentinel	£4.95	2-41 Comp-U-Share See 1-31 under ZX81. 48K RAM	£9.95
Guard your mother ship against alien attacks. 48K RAM	£4.95	2-42 Comp-U-Tax See 1-32 under ZX81. 48K RAM	£9.95
In Inches			

To: The Software Workshop, Yew Tree, Selborne, Hants GU34 3JP

I wish to order the following programs. I understand that:

- * I will receive a FREE blank cassette with every 2 programs ordered
- * I can return products within seven days if not entirely satisfied and receive a replacement.

Ref No	Qty	Title		Price
	~			
,				
'st casseti	te, and	nd handling: add 45p for the 25p for each additional orders add extra 50%	Total	
		postal order for		



(Allow 28 days MAXIMUM FOR DELIVERY)

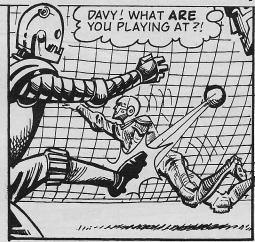
Address_

A GOAL DOWN AGAINST DAVY'S DOM-INATORS, KIT CURSOR HAS SECRETLY PLACED A MYSTERIOUS BLACK BOX UNDER THE COMPUTER CONTROLLING THE DOMS' ROBOPLAYERS!



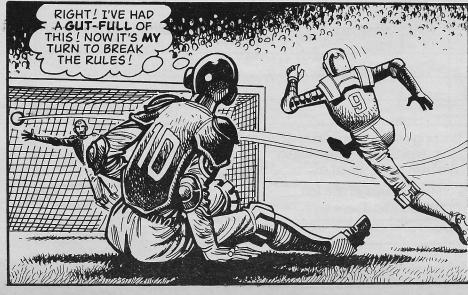


IN THE 1990S ALL SPORT HAS BEEN TAKEN OVER BY ROBOPLAYERS - BUT THE DOMS' Nº 10 IS NOT ALL HE SEEMS!

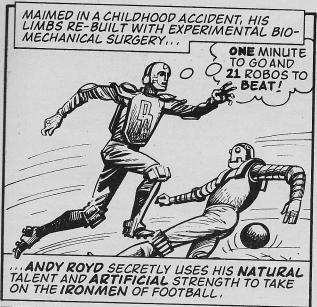






















ANDY ROYD







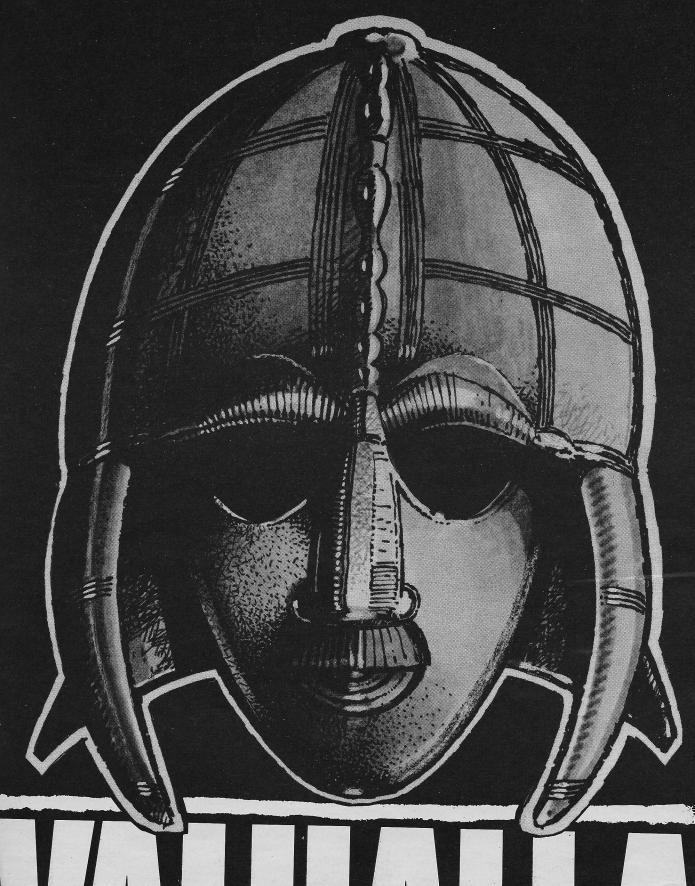


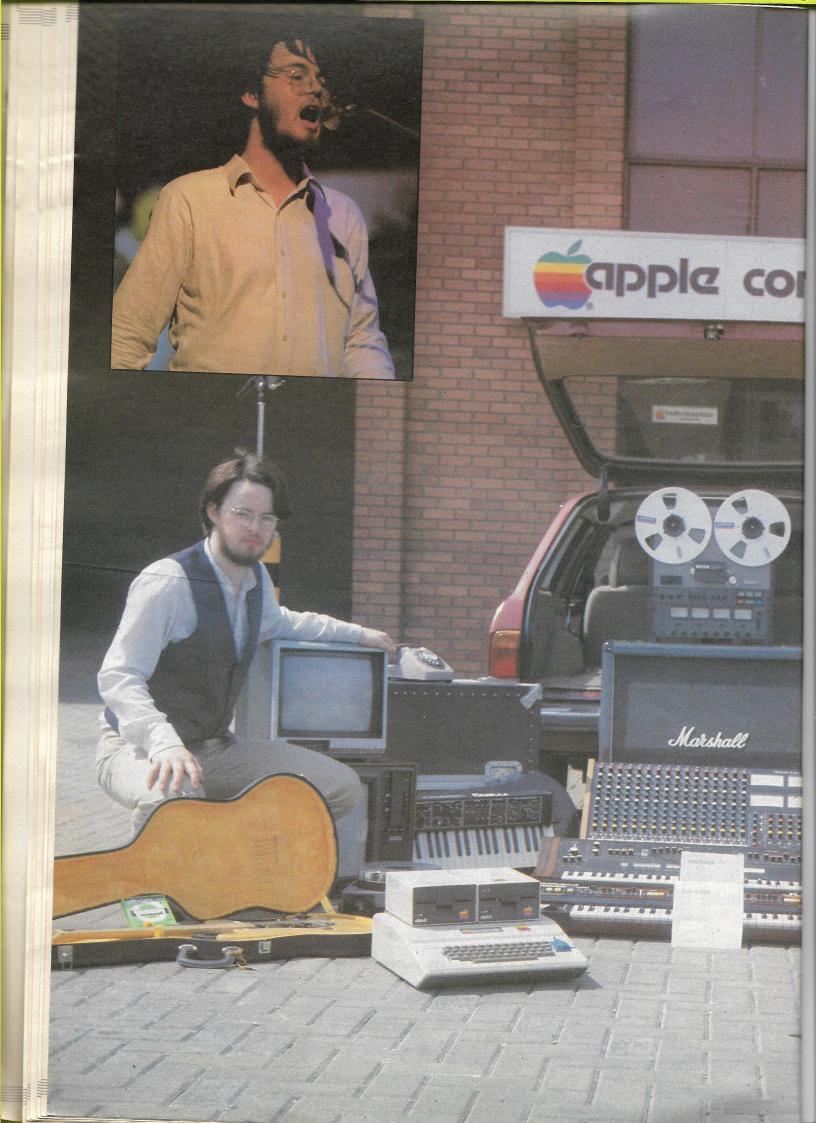


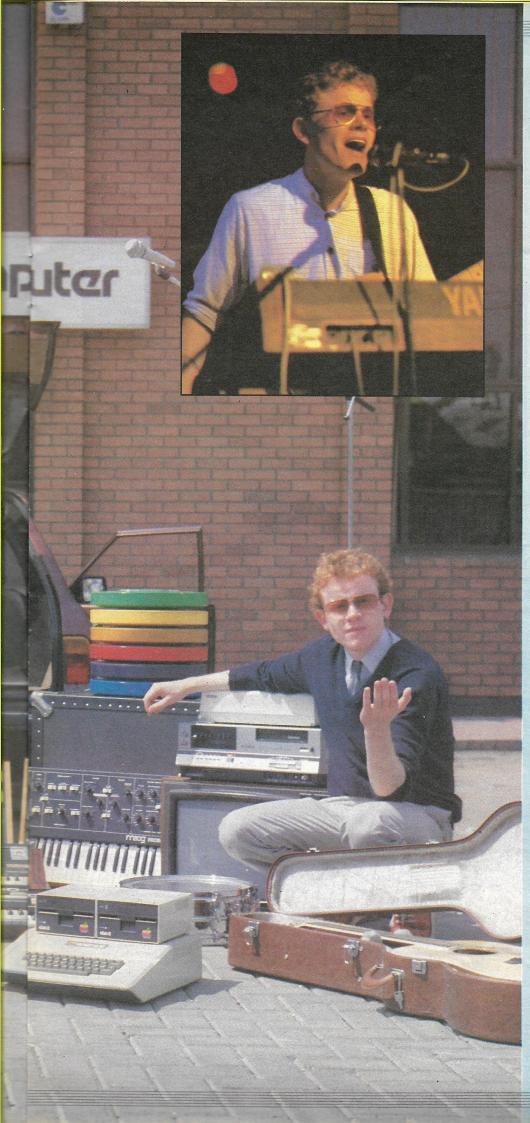
BUT THE MAGNETIC FIELD AND SHIELDING ON KIT'S PROGRAM SHOULD HAVE TURNED THE DOMS INTO A TEAM OF RANDOM











TENANTS OF THE LATTICE

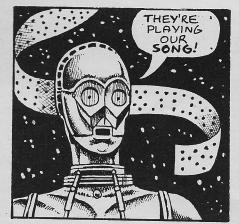
S YOU KEY IN and tune in to Talk to Me, the single given away with this printout, you might be tempted to ask who or what is Mainframe anyway?

Mainframe is Murray Munro and John Molloy, two young musicians who got together a year ago to push back the frontiers of rock music using the latest new technology of synthesisers, computers and video systems. The result has been two singles and an album, Tenants of the Lattice Work, together with a 40minute video of the album's sciencefiction story line. The album has been also adapted for live shows with computer graphics and video providing a stunning backdrop while Murray and John perform on guitars and keyboards.

An exciting LP to listen to, Tenants of the Lattice Work has an added bonus of The Quest, a complicated puzzle for those who delight in such things. The successful puzzler will win an 18ct solid gold hallmarked letter 'M', worth about £2,500. There is an important clue included in the Load Runner free single, just to whet your appetite.

The concept of The Quest grew from the obsession of Murray and John with computer adventure games. Nowadays, however, they are preoccupied with the band and the various computer projects under way. The most important of these is a 'betweening' animation program for computer graphics.

Further information about Mainframe can be obtained from MC2 Music & Records, 24 Missden Drive, Hemel Hempstead, Herts. If you want to listen to the album there is a reduced rate available for Decoders, on page 10.



Arcade 1Q?

FATHERS AND MOTHERS worried that their children spend too muctime playing video games might be interested in the latest research from the States. There sociologists have found that youngsters who spend good deal of time in games arcades tend to be above average at school, a well as more sociable than their non-computer-struck friends.

Those who prefer to play their games at home often involve the familin what is happening, spending time playing the games which used to be spent watching television rather than reducing homework time. Robe Olton, Atari manager of behavioural research, also claims that compute games have been used in hospitals to help children with serious burn exercise their painful arms—with great success.

Micro music

MAKING CINEMA FILMS is about to become easier. At the California studios of Lucasfilm, where all the Star Wars films were put together, a digital sound processing studio is being built which is reported to be really space-age.

The computer in the studio is being designed to bring more flexibility into producing sound-tracks, which at the moment is a very complicated process— The Empire Strikes Back used 140 reels of tape on the sound-track.

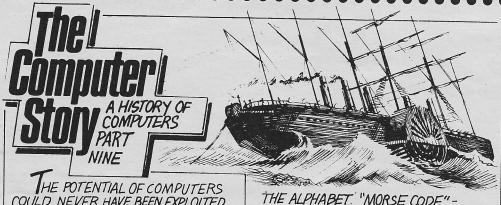
The new studio will be able to produce a variety of sounds which will be produced at the touch of a button and it is possible the computer will be able to 'listen' and learn from things played to it, a tremendous achievement, since one second of sound needs 50,000 numbers to represent it inside a computer.



The games soldiers play

DID YOU KNOW that adults play war games, too? Defence system giant Marconi has built an electronic warfare simulator, the Electronic Warfare Evaluation Facility, which is being used to train soldiers to cope with electronic warfare.

Electronic warfare has nothing to do with guns or tanks; it uses technology to disrupt enemy military communications—for instance by dropping metallised fibres to interfere with enemy radar. As each potential threat is identified, the EWEF computer chooses the most suitable jamming techniques from its pre-programmed library and the simulator has to take into account data such as terrain features, weather conditions, enemy countermeasures and the effects of flight manoeuvres.



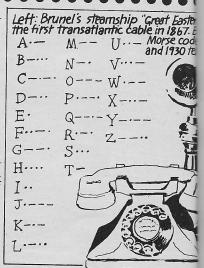
HE POTENTIAL OF COMPUTERS COULD NEVER HAVE BEEN EXPLOITED WITHOUT AN EFFECTIVE COMMUNICATIONS NETWORK.

THE WAY AHEAD

TELEGRAPH SYSTEMS DEVELOPED DURING THE MID-19TH CENTURY AND WERE USED TO SEND CODED MESS-AGES BY WIRE - USUALLY IN THE FORM OF SHORT AND LONG IMPULSES (DOTS & DASHES) FOR EACH LETTER OF

THE ALPHABET. "MORSE CODE" NAMED AFTER ITS INVENTOR - BECAME
A UNIVERSAL SYSTEM, AND COULD ALSO
BE SENT BY FLASHING LIGHT OR, BY THE
1900s, BY RADIO TRANSMITTER. THE
SIGNALS HAD TO BE DECODED AND
WRITTEN BY HAND.

WHEN ALEXANDER GRAHAM BELL INVENTED THE TELEPHONE IN 1876 IT ALSO BECAME POSSIBLE TO SEND THE SOUND OF THE HUMAN VOICE OVER WIRES BY ELECTRICITY. ALTHOUGH BELL'S TECHNIQUE WAS NOT THE ONLY POSSIBLE

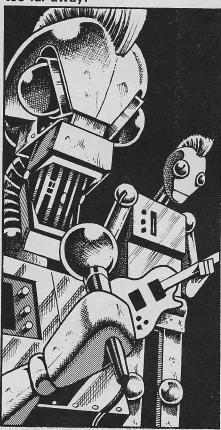


ONE, HE WAS ONE OF THE FEW TO R NISE THAT SUCH A SERVICE WOULL COMMERCIALLY USEFUL. HE DID THE WORK TO SET UP A PROPER TELEPHO NETWORK, AND SOON BOTH TELEGRAND TELEPHONE NETWORKS SPAN THE WORLD.

BUZZUORDS

Heavy Metal men

IN THE FIELD of computerised music Professor Ichiro Kato of Waseda University in Japan claims to have invented the world's first musically-talented robot which can play an electronic organ as competently as any human. So perhaps the day when we see the world's first pop group consisting of robots is not too far away.



Buzzwords are the jargon of the computer world and can be very confusing. Below, *Load Runner* continues its glossary of computing terms. Get buzzing.

Graphics. The display which the computer makes on a screen or a printer. It could be generated during an arcade game or be a graphic representation of information, i.e., a map, which has been entered into the computer.

Handshake. Communication between two parts of a computer system. One part of the computer indicates to another part a vital piece of information to keep it going.

Hard copy. The printout which is from a printer rather than from a television screen. It will be in the form of ink and paper.

Hardware. Anything which is electronic or has been made of electronic components. It is the equipment you can see, distinct from the software which is invisible to the user.

Hash. A mark which looks like a noughts and crosses symbol. It is American in origin and means number; e.g., # 1 means number 1.

Header. A piece of program code generated by the computer to go on to tape or disc before a program is stored. The information in the header usually includes the name of the program, the length of the program, and whether it is in a high-level language or in machine code.

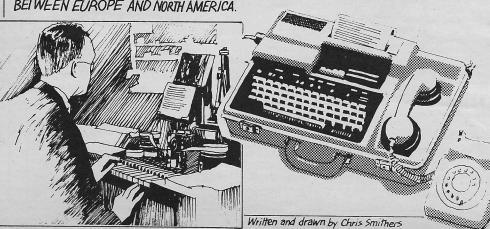
Heuristic. A method of solving a problem using a computer which relies on trial and error. It is a method where the computer learns which moves are correct and which are not by making mistakes. For instance, a noughts and crosses program might use a heuristic. It would have to play several games before it started to win and in losing it would determine which moves not to make again.

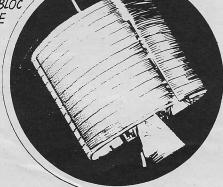
Hexadecimal. A number system which is different from the method of counting we use normally. In our number system, called denary, we use the digits 0 to 9. When we go beyond nine we use 0 again and put a one to the right of it. For that reason the number 10 follows nine. In the hexadecimal system we use the digits 0 to 9 but do not stop there. After 9 you get A, B, C, D, E and F. Instead of holding a digit which is 0 to 9, one number place can hold a digit which can be from 0 to F. That means you can store a number from 1 to 15 decimal in one digit.

High-level language. A language which a programmer can understand easily but which the computer needs to translate into its language, machine code, before it can execute it. Basic — Beginners' All-purpose Symbolic Instruction Code — is a high-level language.

THE TELEX SYSTEM BEGAN IN THE 1930'S. OPERATORS PUNCHED THE MESSAGE IN PAPER TAPE WHICH WAS THEN RUN AT HIGH SPEED THROUGH A 'TRANSMITTER' AND DOWN THE TELE-CRAPH LINE TO A PRINTER AT THE OTHER END. LINKS VIA SATELLITE BEGAN WITH THE LAUNCH IN 1965 OF "EARLY-BIRD"—THE FIRST INTERNATIONAL TELECOMM-UNICATIONS SATELLITE, PROVIDING LINKS BETWEEN EUROPE AND NORTH AMERICA.

AT THE SAME TIME THE USSR BEGAN LAUNCHING ITS "MOLNIYA" SERIES OF SATELLITES TO BRING SPACE COMMUNICATIONS TO COMMUNIST BLOC COUNTRIES. COMPLETE GLOBAL COVERAGE IS NOW PROVIDED BY THE "INTELSAT" SERIES, ADMINISTERED AND PAID FOR BY OVER 105 MEMBER COUNTRIES. "INTELSAT 5" CAN CARRY 12,000 INDIVIDUAL TELEPHONE CONVERSATIONS AND TWO TELEVISION CHANNELS.



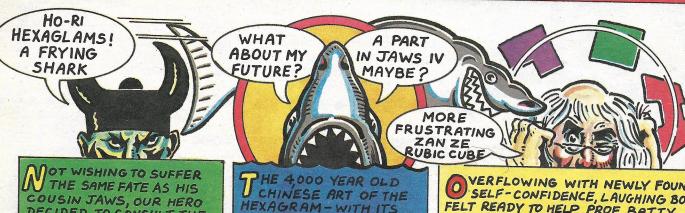


Above: "Early-Bird" satellite.

Far left: The Hughes telegraph machine preceded telex operations, and its Keyboard, with black and white Keys, resembled a small piano (!)

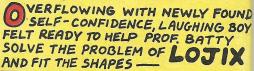
Left: This portable communications device transmits and receives the printed word and operates four times faster than telex.

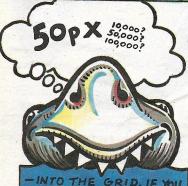




COUSIN JAWS, OUR HERO DECIDED TO CONSULT THE ORACLE OF I CHING

HEXAGRAM - WITH ITS KEY TO FUTURE AND THE MEANING OF LIFE





INTO THE GRID, IF YOU MANAGE TO SOLVE IT, YOU COULD WIN THE OJIX POT OF SILVER X EACH COPY SOLD



IZZY FROM HAVING TO USE HIS LITTLE FISHY BRAIN OUR INTREPID CHUCKLES GOT LOST AND FOUND HIMSELF IN THE DANK DEPTHS OF KILLER CAVERI



ITH ITS HORDES OF A TREASURE AND DEADLY GUARDIANS ... TOO MUCH, EVEN FOR A SUPER FISH, SO HE HOPPED ON A BUS



A CREEPER IN

ITS CRAZED QUEST FOR POWER CELLS. STOP IT OR END CLICHES AS WE KNOW THEM.

VIRGIN GAMES GANG

Our **GANG** is growing in numbers all the time, and everybody who buys one of our **NEW GAMES** will **RECEIVE**:

a year's **FREE MEMBERSHIP** of the **GAMES GANG**;

FREE ENTRY in the next VIRGIN GAMES GANG DRAW;

6 FIRST PRIZES, consisting of a VIRGIN DAY OUT – a trip on the VIRGIN GAMES FUN BUS to the VIRGIN MANOR RECORDING STUDIO in Oxfordshire. And then be our guest at the famous KENSINGTON ROOF-TOP NIGHTCLUB, "THE GARDENS";

50 SECOND PRIZES of VIRGIN GAMES T-SHIRTS;

100 THIRD PRIZES of VIRGIN

EXISTING TITLES Other

titles in the VIRGIN GAMES range are: VGA 1003 –
SHEEPWALK by Gregory Trezise for SPECTRUM
48K A sheepdog trial in your living room! VGA 1001

- YOMP by Terry Murray and Roy Poole for
- YOMP by Terry Murray and Roy Poole for
- SPECTRUM 16 & 48K Command the paras and take
on the impossible. VGA 1002 – STARFIRE by
- Martyn Davies for SPECTRUM 48K Rid the galaxy

GAMES POSTERS.

TO





LEADING BACK TO SEA, THE LAUGH-ING SHARK HAD TO AVOID THE ALIEN 'MUNCHIES' NIBBLING AWAY AT A GIANT DAM. HELP! IF THE DAM BURSTS, IT WOULD FLOOD ENVAHI



YOU MUST NOT MISS

DARWESS -- ON THE EDGE OF PLENGER

VIRGIN GAMES BUS

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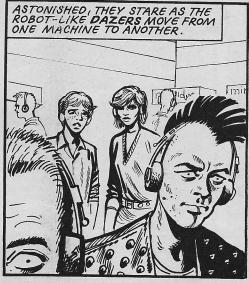
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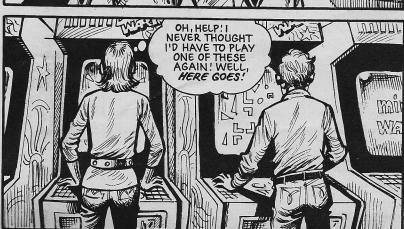




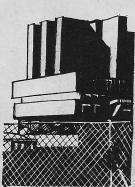














THE ARCADIANS







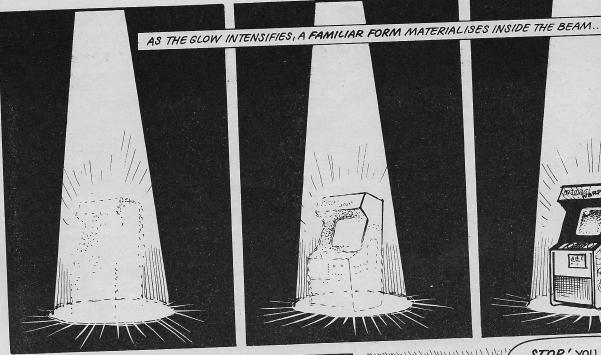


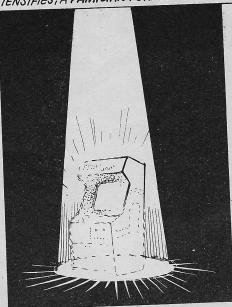


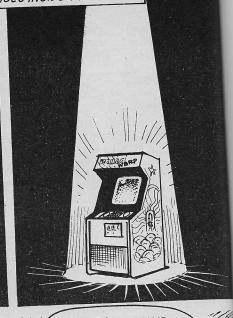
























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8-7 OF COMPLITER

- BRITIN



Acorn Computers Ltd, Fulbourn Road, Cherry Hinton, Cambridge, CB1 4JN

Specifications

Price Numbers sold How sold Processor Standard RAM **Expansion RAM** Basic + operating system Display

Tape recorder **Backing storage** Orders taken

Mode 0

£199

Assembled 6502 32K

32K

80 characters × 32 lines

Acornsoft, c/o Vector Marketing, Denington Industrial Estate, Wellingborough, Northamptonshire NN8 2RL.

Comments

The Electron may be half the price of the BBC Microcomputer model B but it uses the same language and in most cases it can use the same software. The only thing it lacks is a teletext graphics mode seven which the model B has. That will no doubt be added by a hardware company in the near future.

Software available for the machine includes two languages, Forth and Lisp, as well as games such as Chess and Meteors. The graphics potential of the Electron can be exploited by two programs, one called Creative Graphics and the other Graphs and Charts. Education and business are also catered for with Personal Money Management and Tree of Knowledge. All those programs are available from Acornsoft.

On the hardware front the machine should soon be supported by light pens, graphics tablets and a device which will control such aspects of home life as heating and lighting. Expansion units will also include printer interfaces, disc drive and a ROM slot into which a ROM program called View can be put to give the Electron word processing capabilities.



AVE YOUR CAMP by block-Sing the enemy tank with a wall of blocks. Your aircraft will drop a block whenever you press a key, so long as there is no other block in the air at the time. The tank can break through walls of a certain height but not of a height equal to your skill level. Thus if your skill level is seven, you must build a wall seven blocks high to save your camp. Written for the Spectrum by T Goodwin of Bedford. All underlined letters should be entered in graphics mode.

whymy

10 FOR 1=0 TO 39 READ at POKE USR "a"+1,a: NEST 1 20 DATA 0,0,0,28,63,255,255,12 30 DATA 0,14,28,56,254,255,248 ,248 40 DATA 0,0,1,3,7,15,15,7 50 DATA 0,0,128,255,224,240,24 0,224 60 DATA 0,126,126,126,126,126, 126,0 70 OVER 0: PAPER 5: INK 0: CLS 80 PRINT TAB 12: "Blocker"; OVE R 1)AT 0,12)"____" 90 PRINT " Protect your camp (shown at the right hand side as of from an enemy tank by using drop blocks in from any key to t of it." 106 PRINT " The tank can climb number of blocks, b a centain. many as the skill ut not as choose." level you. 110 PRINT '" The rating is base you block the tank d on where , the number of blocks you use to block it, and the skill leve I you choose." 200 IMPUT "Skill level ?(2 Eeas 91 TO (15)")s: 1F sk2 OR s>15 THE N GO TO 200 210 BURDER 4: PAPER 5: INK 0: C 15 229 PRINT AT 21,31;"-" 250 BEEP .1,20 260 LET P=29: LET t=3: LET bul-0: DIM a(31): LET h=21: LET P2=P 300 PRINT AT 21, t-2;" CD"; AT 0,

P : "AB "

319 LET P=P-1

=t+1: PRINT AT 0,1;"

EN LET bul=1: LET P2=P

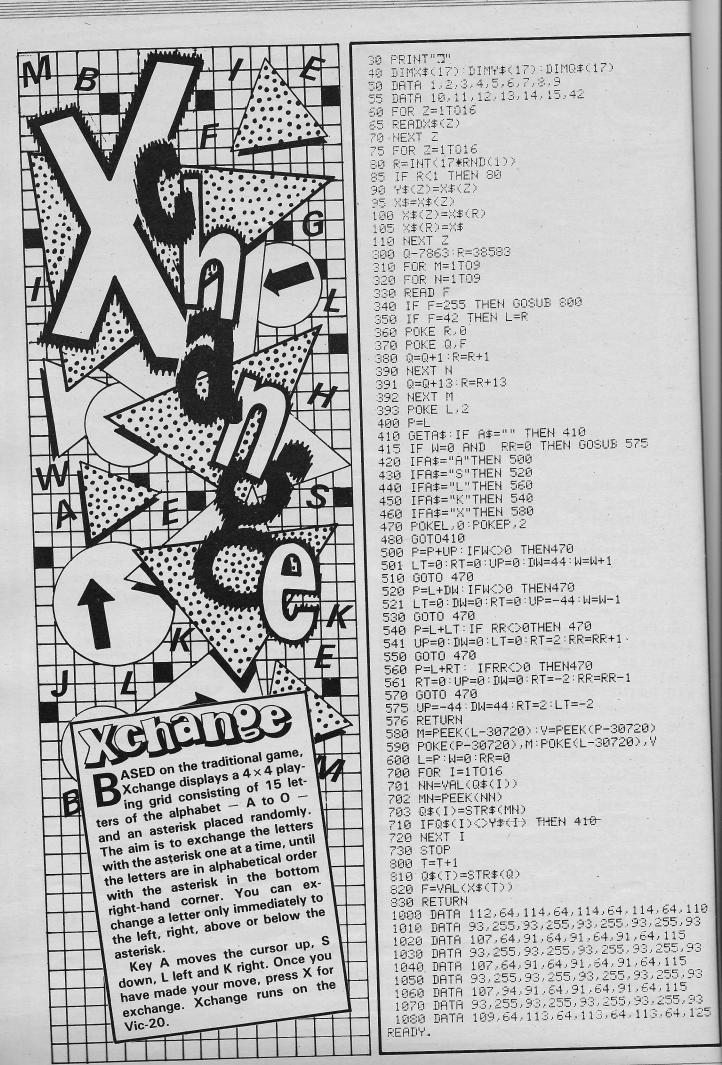
220 IF P=0 THEN LET P=29: LET t

340 IF IN 254<>255 AND bul=0 TH

330 IF t=31 THEN GO TO 1000

345 IF a(P2)=h THEN LET a(P2)=a (P2)+1: LET bul=0: LET h=21 350 IF bul=1 THEN LET h=h-1: PR INT AT 21-h,p2; PAPER 0; INK 2;" E";AT 21-h-1,p2; PAPER 5;" " 360 IF a(t)>=s THEN CO TO 2000 370 LET a(t)=0 500 GO TO 300 1000 RESTORE 1030 1005 FOR i=1 TO 10 1010 READ a/b/ BEEP a/b 1020 NEXT 1 1030 DATA .75,-1,.5,0,.75,0,.5,0 ,.75,0,.75,3,.75,2,.75,0,.5,-1,. 1040 PRINT AT 0,12; "Bad luck!"'" camp is destroyed" Your 1050 GO TO 2060 2000 RESTORE 2100 2005 FOR i=1 TO 7 2010 READ a.b. BEEP a/1.5.b 2020 NEXT i 2050 PRINT AT 0,12; "Well done!" You have saved your camp"'' TAB 10: "Rating: ";a(t)*s*(32-t) 2055 IF \$>5 THEN GO TO 2200 2060 PRINT "TAB 10; "Another 90 2065 PAUSE 0 2070 IF INKEY#="4" THEN GO TO 20 2000 IF INKEY#="n" THEN STOP 2090 GO TO 2065 2100 DATA .5,0,.25,0,.25,0,.5,4, .25,7,.25,7,1,12 2200 FOR i=1 TO 20 2205 LET r=INT (RND*5) 2210 BEEP .25*(INT (RND*3+1))/(0 AND r=0)+(12 AND r=1)+(7 AND r= 2)+(4 AND r=3)+(-5 AND r=4) 2220 NEXT i 2230 BEEP .75,12 2250 PRINT ''" You are awande

d the V.C." GO TO 2060



-

10 , PIM SS\$ (15)

A= INT (RND (1) * 13)

23 R= Ø: W= Ø: G=2

25 RESTORE

3Ø FOR X= Ø TO 12

40 READ W \$

41 IF X=A THEN D\$ = W\$

42 NEXT X

5Ø CLS

60 C= LEN (D\$)

70 D = C/2 : E = 19 - D * 2

80 FOR F=1 TO C

90 PLOT E, 20, "_"

1øø E=E + 2

110 NEXT F

PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: 120

129 PLOT 2,6, "INPUT YOUR GUESS": AA=Ø

GET GS\$: IF GS\$=" "THEN STOP 130

131 PLOT G, 22, GS\$: R=R + 1

132 FOR I=Ø to R

133 IF GS\$ - SS\$(I) THEN GOSUB 2000

134 IF AA=1 THEN 137

NEXT T

137 SS\$ (R-1) = GS\$

138 G=G + 2: T = Ø

140 IF AA- 1 THEN 129

145 FOR Y= 1 TO C

1.50 E\$= MID\$ (D\$, Y, 1)

160 IF E\$= GS\$ THEN 500

17ø NEXT Y

175 IF T=Ø THEN GOSUB 2ØØØ

180 GO TO 129

200 PLOT 2,6, "YOU'RE DEAD!!"

PLOT 2,7, "THE WORD IS": PLOT 14, 7, D\$ 202

204 WAIT 200

PLOT 2, 7, "DO YOU WANT TO PLAY AGAIN Y/N" 21ø

23Ø INPUT O\$

IF O\$ = "Y" THEN RUN ELSE END 240

25Ø PLOT 2,6, "WELL DONE THAT'S IT"

26Ø GO TO 210

5øø E= 19 - D*2: Z= E + 2* (Y - 1)

51Ø PLOT Z, 2Ø, G\$: T=1

516 W=W + 1: IF W=C THEN 250

52Ø GO TO 170

DATA CAT, DOG, LETTER, ANIMAL, BOTTOM 1000

DATA BESPOKE, PROGRAMS, COMPUTER, PRINT 1010

DATA BAT, MEMORY, TABLE 1929

PLOT 2, 6, " 2000

2001 READ V: READ B: READ L: READ M\$

2002 IF V=255 OR B=255 THEN RETURN

IF M\$= "V" THEN 2040

his version of the old paperand-pencil game for the Oric is straightforward but nevertheless entertaining. The computer selects a mystery word and you have to guess the letters one at a time. Eight mistakes and you are LINA New words can be inserted by 11 10 typing-in new lines after line 1010 with DATA statements. Put com-Miller mas between each word and for every word you add to the list increase the number after the * in line 20 and the number after TO in line 30. It is best if you can have a

> 2005 IF M\$= "U" THEN 200

friend insert the mystery words, or you will know the answers before

2007 AA=1

you start.

FOR J= V TO V + L 2Ø1Ø

2Ø2Ø PLOT J, B, "*"

2030 NEXT J : GOTO 2000

2040 FOR K= B TO B - L STEP - 1

2Ø5Ø PLOT V, K, "*"

3Ø1Ø

2060 NEXT K: GOTO 2000

3000 DATA 29, 15, 3, H, 3Ø, 15, 1Ø, V

DATA 3Ø, 5, 6, H, 255, 255, Ø, S 3Ø2Ø DATA 33, 7, 2, H, 33, 8, 2, H

3Ø3Ø DATA 255, Ø, Ø, V, 34, 13, 4, V

3Ø4Ø DATA 32, 10, 4, H, 33, 13, 2, H

3Ø5Ø DATA 255, Ø, Ø, S, 32, 11, Ø, H 3Ø6Ø

DATA 255, Ø, Ø, S, 36, 11, Ø, H 3Ø7Ø

DATA 255, Ø, Ø, S, 33, 14, Ø, H 3Ø8Ø DATA 255, Ø, Ø, S, 35, 14, Ø, H

3090 DATA 255, Ø, Ø, S, 34, 6, Ø, H

3100 DATA Ø, Ø, Ø, U



HI! I'M BRAINY and I really rate computers. I'm in Load Runner every issue so write to me at 196-200 Balls Pond Road, London N1 4AQ and I'll do my best to answer any questions you have.

Remember, Brainy's the name and, by the way, I will pay £1 to anyone whose name is mentioned. Write away!

mother might think that was even worse. So it looks as if she will have to suffer until you learn to sing in

Scramble for the Spectrum

COULD YOU tell me where I could find a 16K version of Scramble for the Spectrum?

Alan Strawbridge, Weymouth, Dorset

BRAINS BRAINSOX

Vic-20 expansion is complicated

I OWN an unexpanded Vic-20 and would like to know how much extra memory I should buy and from which company to buy it. Can you help?

Derek Wright, Orpington, Kent.

THE AMOUNT of memory you buy depends on how much you want and are prepared to pay for. Certainly the 5K with which you start is miserly. You can buy extra memory in packs of 3K, 8K and 16K, and up to 27K in all, making 32K. It is very complicated how Vic extra memory works, in fact. Most Vic-20 owners say that Commodore extra memory chips are very expensive, so look around. Some other companies sell these RAM chips for your computer; look in the popular computing magazines.

Extra chips for the BBC

COULD YOU tell me the cost of fitting an extra 6502 or Z-80 processor to the BBC micro and which would you recommend? Where could I have it done?

Marc Williams, Cleveland.

UNFORTUNATELY, unless you are very knowledgeable about the intri-

cate workings of the Z-80 processor chip, you will not be able to use one in coordination with the 6502 chip already in the BBC micro, because they use different machine codes. You would be better to wait for the special Acorn second processor, which would be much safer and reliable than trial and error.

If you do not want to wait for the Acorn chip, you could buy another 6502a—the one already in the BBC—but you would also need other chips to help them communicate. I doubt if there is any shop which would do it for you and it would probably be expensive.

Nicely out of tune?

WHENEVER I sing at home, my mother says I am out of tune. She says that I should practise singing with a computer which has been programmed to sing songs in tune. We have an Apple. Are there any tapes which make it able to sing?

Katherine Vaughan, 7, Hereford

THERE ARE none of them yet. The computer can be made to say the words of the song, or to hum the tune, but not both at once. I suppose you could try to borrow another computer and have both operating together but I have a feeling your

MIKRO—GEN, 24 Agar Crescent. Bracknell, Berkshire sells one at £5.50. There are probably others but it is the only one listed in the *Microscene Guide to Spectrum Resources*—£2, 6 Battenhall Road, Birmingham 17—which I find useful when looking for certain programs for the Spectrum. You could also keep your eyes open for the same game under a different title in reviews and advertisements in popular magazines. Go to an exhibition and you will find other games, too, at reduced prices.

Model A or model B?

I AM thinking about buying a BBC computer. All my friends say the model B is best but the model A is less expensive. Could you tell me the main differences between the two models?

Andrew Whiteside, Clitheroe, Lancs.

IT REALLY DEPENDS whether you are thinking of price or computer. The model A is being phased-out and if you buy it you have to buy extra memory to run most commercial software. The model A cannot use a printer and cannot control other equipment, e.g. central heating. On the other hand, the model B is £100 more expensive than model A and you can buy a complete upgrading kit for £48; that means you have a computer as good as the model B for £50 less.

Unfortunately, you have to fit your kit yourself and have to know something about how computers work. You also endanger your guarantee by doing it, so if anything goes wrong after upgrading you may not be able to get your money back. Model A plus upgrade is a good investment, though, and the best thing is to do it in stages as your needs expand.

TRUMBULLSWORLD

MARC HAS BEEN CAPTURED BY THE EVIL SIMIAN AND THE SINISTER HUNTER. JAN HAS BEEN LEFT TO DIE. IT SEEMS THAT THE QUEST THROUGH THE ADVENTURE WORLD CREATED BY THEIR FATHER ON HIS COMPUTER IS DOOMED.





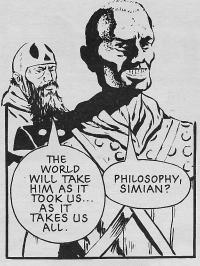


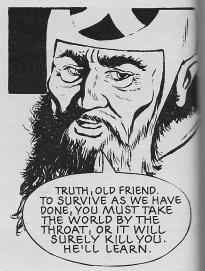










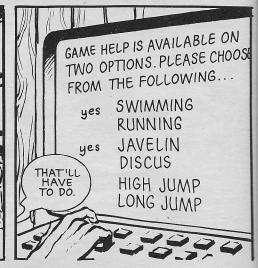










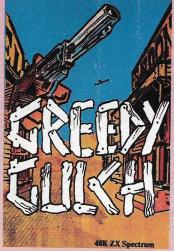


TRUMBULLS WURLD



TRUMBULL'S WORLD





Wild West adventure

GREEDY GULCH is an adventure game for the 48K Spectrum which the manufacturers claim has been written specially for novice adventurers. There are no monsters, as it is a fight against natural elements in a western ghost town. You have to find a map which will indicate to you the location of an old mine where gold can still be found.

If you are lucky you will find all the objects you need for mining hidden in the town. If you are unlucky you will venture into the desert, cursed by the burning heat of the sun, and be lost forever. That means you will be kept continually on the edge of your seat, not wanting to enter the desert because you fear that you have not collected all the items.

The adventure is split between a text and graphics game. On the upper half of the screen is displayed a picture of the location in which you are standing. Below it is a textual description of the location and, sometimes, the objects which can be found there.

Greedy Gulch is an excellent adventure game which should give any novice an introduction to the schemes and plots hatched by the authors of such games. It costs £4.95 and can be obtained from Phipps Associates.

Fun, 7; addictive, 7; graphics,

Go to the Devil!

MONSTERS, witches and warlocks inhabit Hell's Temple, for the 48K Oric 1. You, of course, have been selected to enter Satan's domain where you will risk your life and soul to gain riches which, you are told, are beyond your imagining.

There are 70 monsters to battle, although even if you play for a long time you have to do combat with fewer than 10 of them. If you are killed by one of the Devil's denizens you may be reincarnated by the computer so that you can fight another day. If the computer is not feeling generous and you remain in a general state of death you will just have to start the game again.

The program is excellent, so it is a pity about the instructions, or lack of them. The booklet tells you how to move around the temple and how to detect monsters but it gives no good reason why it is worth venturing into such perilous dungeons. There is no mythos or storyline contained within the booklet.

Apart from criticism about the documentation, the game is very enjoyable and should be of interest to all players of Dungeons and Dragons, which has a similar type of play concept. Hell's Temple is available from Kenema Associates for £12.

Fun, 8; addictive, 8; graphics, 7.



KRAZY KOPTER_

Kopter caper

HELPING two secret agents to escape from enemy territory is no mean feat in Krazy Kopter. It is a fast moving shoot-'em-up game with three levels.

Piloting a helicopter, you must bomb enemy cars on three bridges to prevent them reaching the far bank. If they succeed an anti-aircraft missile blasts you out of the sky. A green army truck carrying the secret agents moves back and forth across the bridges and you should try to avoid that because if you touch it accidentally you will drop like a stone into the sea below.

Enemy ships below fire at you continually and are joined by antiaircraft rockets and zigzagging UFOs as you progress through the different levels.

This game is for one player only and is extremely difficult but, once mastered, is entertaining, and accompanied by excellent title music. Marketed by the English Software Co for the Atari 400/ 800, Krazy Kopter is for those who like a challenge and is well worth £14.95.

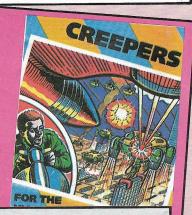
Fun, 7; Addictive, 8; Graphics, 6.

creepers

CREEPERS, from Virgin Games, is a fast and nerve-racking game and could be very popular with Defender fans. It runs on a Vic-20 and the cassette has two versions of the game, for the model 3K and the expanded 8K. Both versions are good, though the 8K version is obviously better

Piloting your fighter craft you attempt to prevent the swooping aliens stealing your energy blocks, for if they manage to take all the blocks from a particular zone they turn into mutants and zero in on you. As the game progresses the aliens descend in formation, making it almost impossible to co-ordinate your firing and, of course, the speed of the game is increasing continually

A challenging game to play, Creepers has the added bonus of both joystick or keyboard controls. It costs £5.95.





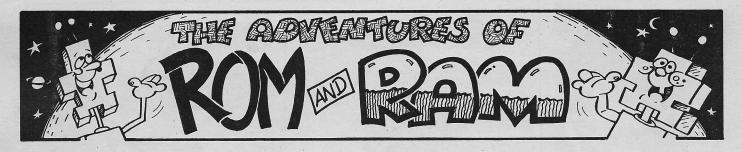
WHOOSH!

THE WHOOSH of missiles and the explosion of fuel tanks can mean only one thing. The arcade game Scramble has arrived for the Commodore 64 in the shape of Super Skramble from Terminal

As a Skramble pilot you have to move your spacecraft into the caverns, dodging missiles and destroying enemy installations which appear on the ground. To keep your craft fuelled you have to hit the fuel dumps, which are also on the ground, with your bombs. If you fail to collect sufficient fuel in that way your spaceship will crash.

The addition of a joystick option makes the game all the more like an arcade spectacular and should provide anyone who likes zapping games with hours of fun. Super Skramble can be obtained from Terminal Software and costs £9.95.

Fun, 7; addictive, 7; graphics, 8.





NOW WE







THERE. I'VE

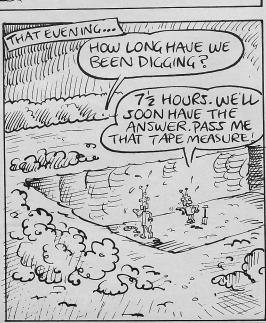


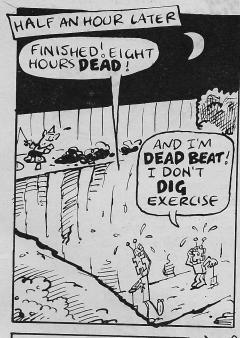




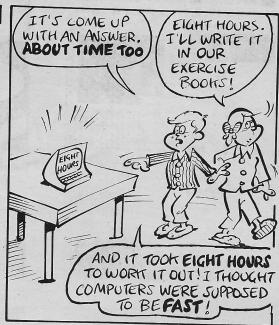
WHEN I CAME TO EARTH



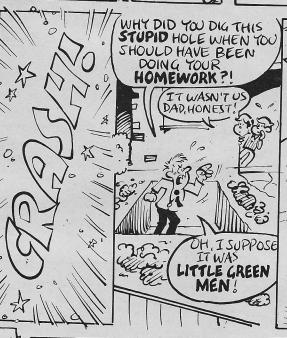


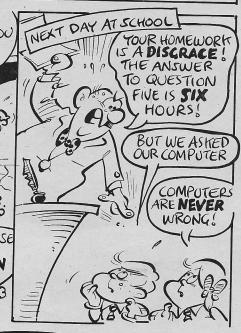


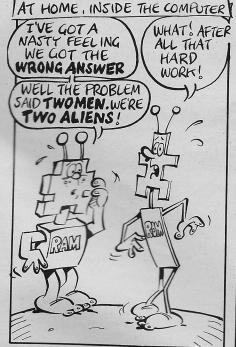


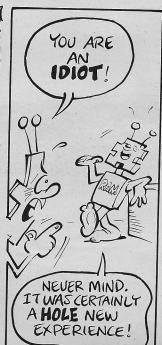


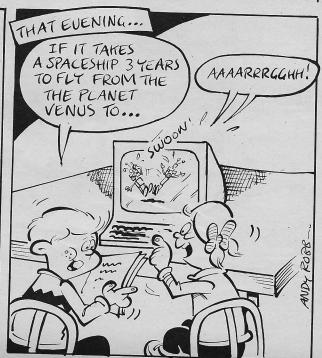












36



OW FOR SOMETHING completely different. When some of the more seasoned arcade players were becoming a little tired of defending the galaxy from the evil invaders from outer space, Pac-Man arrived. The lovable dot muncher first gobbled his way into the arcades towards the end of 1980.

The birth of a whole new concept in arcade game design, Pac-man required totally different strategies. More forward planning was needed rather than a quick trigger finger.

Pac-Man has to chomp his way round a maze filled with dots while being pursued by four brightly-coloured ghosts, each with its own personality and cute name. Blinky—red— is the fastest ghost and can overtake Pac-Man in his haste to escape. The other three, Inky, Pinky and Clyde, all travel at about the same speed as Pac-Man.

To help Pac-Man from being caught and to score bonus points there are flashing energy dots in each corner of the maze. When Pac-Man eats one of the dots the ghosts take fright by turning blue and beating a hasty retreat. If Pac-Man manages to catch them while in that state, the ghosts' eyes seek reincarnation in a box in the centre of the maze.

Other bonus points can be earned when fruits appear beneath the ghosts' home. They should be eaten to help boost your score, The fruits appear for only a few seconds, so you have to be quick off the mark. If things become a little too hectic there is a tunnel to go into at one side of the screen which brings Pac-Man out the other side. With each new screen of dots the ghosts become faster and the energy dots have a reduced effect.

A final warning—prolonged exposure to Pac-Man can result in a severe case of Pacmania, as seen in the U.S. with a flood of Pac-Man souvenirs, toys and records. Refreshment periods can be taken in Pac-Man restaurants between watching Pac-Man cartoons on television.

Software

AC-MAN for the Atari home computer is widely regarded as the best home version available. There is also a version available for the VCS.

Gulpman is a fair Pac-Man type game but has poor graphics for the Spectrum.

Acornsoft produces Snapper for the BBC computer, another version with good graphics.

After the withdrawal of the excellent Bug-Byte version of Pac-Man, the next best Vic-20 version is Puckman by Morris Associates of Port Talbot. It has good graphics but uses the keyboard for control, which greatly reduces playability.

Ratings out of 10
Atari VCS 7
Atari Computer 9
Gulpman 7
Snapper 9
Puckman 6

Providing processor power to The Controller in publishing Load Runner were Bill Scolding (editor), and June Mortimer (administration). Chris Winch, Harold Mayes MBE, Terry Cartwright and Richard Hease linked into the system. The corporate might of ECC Publications of 196–200 Balls Pond Road, London N1 4AQ was utilised continually. Printout by Cradley Print PLC, Warley, West Midlands. Distributed by Spotlight Magazine Distribution Limited, 01–607 6411. ISSN 0264-8369. © 1983 Load Runner.